

NAME

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6-8451

DATE

4/16/41

## Strange Mine Hole #1

0 - 5	Reddish brown subangular to wellrounded medium to coarse sand cont. a few pebbles.
5 - 45	Brown fine dirty sand. cont. a few coarse sand grains.
45 - 75	Very finely sandy yellow silt
<u>Db</u>	
<u>Db</u> <sup>2</sup>	
75 - 80	Greenish-brown silty clay
80 - 90	Greenish-tan clayey silt.
<u>Db</u> <sup>7</sup>	
90 - 100	Greenish-brown compact silty clay

## Strange Mine - Hole #12

0 - 25	Dirty brown coarse sand containing a few small pebbles, becomes a little finer in lower part.
25 - 60	Fine light-brown sand.
60 - 100	Tan very finely sandy silt. TD.
All Db	

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0-5	Strange Mine - Hole # <u>2</u> Red sandy clay cont. a little Mn.
5-10	Red <sup>fine</sup> medium sand. A few chips of porous <del>red</del> sandstone
10-15	Similar
15-35	V. finely silty yellow silt.
<u>35-40</u> <del>40</del>	Similar
40-45'	Tan finely sandy silty clay. A few pieces of psilomelane
45-50'	Similar with many chips of psilomelane.
50-55'	Similar with a little chert
55-60'	Similar clay
60-65'	Yellow silty clay with a little Mn.
<u>65-75</u> <del>50</del>	Dark Khaki clay cont. chips of psilomelane + ss.
75-95	Khaki clay cont. chips + streaks of yellow + white clay.
95-100	Khaki clay cont. chips of laminated pink + white clay. TD- None of samples in this hole are carbonaceous.

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Strange Mine - Hole # 3	
0-5	Very dark brownish-gray subangular to subrounded sand cont. considerable Mn. dark
5-10	Fine, brown rounded sand cont. a little less Mn
10-15	Fine dark brown sand grains sub-rounded.
15-20	Very fine light-brown sand cont. a few balls of yellow silt.
20-25	Fine to very fine light reddish brown sand.
25-30	Pinkish-brown very finely silty silt.
30-40	Pinkish-tan silt cont. a few small quartz pebbles (from above)
Db	
S+o	
40-50	Grayish-brown silty clay TD.
Strange Mine - Hole # 14	
0-5?	Rich coffee-colored compact sandy clay - a few pebbles.
5?-30	Yellow to brown finely sandy silt.
30-40	Tan v. finely sandy silt.
Db	
S+o	
40-45	Mixture of tan and dark grayish-brown (khaki) silty clay.
45-50	Grayish brown silty clay TD
	Drilled sandstone 48'-50'

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		Strange Mine - Hole #4
0 - 20		Reddish brown subangular to well-rounded fine sand. Very Trace Mn. <sup>5147</sup>
20 - 30		Light brown very fine subrounded sand
30 - 45		Yellow & tan <del>silt</del> v. finely silty silt.
<u>45 - 50</u>	<sup>Db</sup>	<u>Yellowish brown silty clay. This may be Bocraft, but it resembles Tonoloway except in color. T.D.</u>

		Strange Mine - Hole #15
0 - 10		Brown fine to very fine sand - Trace of Mn. A few chips of v.f. grained lightgray sandstone
10 - 30		Yellowish to tan very finely sandy silt
30 - 35		Brownish-gray silty clay that looks like Tonoloway. (Mislabeled?) May be same as 45-50 in #4
<u>35 - 45</u>	<sup>Db</sup>	Greenish yellow finely sandy silt.
<u>45 - 50</u>	<sup>Db</sup>	Grayish-Brown silty clay T.D.

		Strange Mine - Hole #19
10 - 30		Subrounded Fine to very fine <del>red</del> sand. Mn. 1 piece of quartzite and a piece of pink and white clay interbed.
30 - 35		Similar sand containing a few lumps of yellow sandy silt
35 - 55		Yellow to tan very finely sandy silt. T.D.

All Db.

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5-Mile Mine Hole #5	
0-5'	Fine to very fine light reddish-brown angular quartz sand containing a few grains of pyrolusite.
5'-10'	Same as preceding. Color is of course <del>red</del> a coating on quartz grains.
10'-15'	Khaki + light reddish brown silty clay containing a little sand. A few flakes of white Kaolin-like clay.
15'-20'	Silty clayey very fine-ground silty sand. Does not look like Beaufort. Some red stain.
20'-25'	Similar, but slightly more v.f. sand.
25'-30'	Light reddish tan v.f. silty clayey silt, yellow silt.
30'-35'	Similar - A chip of clay that is decalcified limestone
35'-40'	Same as preceding.
40'-45'	Similar but darker brown. Contains a little black + dark brown clay that often ripples slightly.
45'-50'	Brown clay.

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April 12, 1941

Strange Mine Hole #7 ✓	
0-5'	No sample
5'-10'	Light reddish-brown fine to coarse subangular earthy <sup>quartz</sup> sand No. Mn.
10'-15'	Fine to coarse, sub-angular, quartz + sand, yellow to buff, some silt.
15'-20'	Buff to reddish earthy rounded to subangular quartz sand containing a few cuboidal quartz crystals. A little Mn stain.
20'-25'	Yellowish-brown earthy sand-rounded to subangular. Several pieces of noncalcareous quartzite, containing a few small pebbles up to 1/16" diam.
25'-30'	Fine to medium, yellowish-brown to orange, <sup>silty</sup> loose quartz sand containing a few pieces of <del>compact</del> tightly cemented sandstone - prob. quartzite
30'-35'	Light brown loose subrounded fine sand containing chips of quartzite + very porous white fine-grained sandstone
35'-40'	Same as preceding.

7

3038  
95  
2993

25

3001  
40  
2961

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## Strange Mine Hole F (cont)

40'-45'

Same as preceding. A few chips of red clayey sand like gonge filling in open cut.  
Lower drilling than above

45-50'

Same as preceding. A few large chips of ~~compacted~~ light gray very porous sandstone, and one small ball of light brown clay.

50-55'

Friable porous subangular fine to very fine-grained, <sup>clean</sup> quartz sandstone. A few pieces of quartzite. Bulk of sample consists of reddish brown silty earthy fine to very fine sand. A little Mn stain

55-60

Similar, but containing many pieces of bright red earthy fine to very fine sand + sandstone.

60-65'

A combination of preceding two samples

65-70'

Yellow + buff silty clay containing white streaks. One fragment of disintegrated chert? (This may be Tonoloway ls.)

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		Strange #7 (cont.)
70'-75'		Finely sandy & silty yellow clay containing some white kaolin-like material. Some what plastic when wet. Not calcareous.
75'-80'		Same as preceding.
80'-85'		silty clayey, very fine grained sand plastic when wet.
85'-90'		Gray to buff very-finely sandy, silty clay. One piece of psilomelane, possibly from above. Not calcareous.
90'-95'	DB	Like preceding.
95'-100'	STO	Same as preceding. Light olivedrab or dark khaki silty clay - a very characteristic clay residuum after limestone. Widely scattered sd. grains.
100'-105'		Same as preceding. Not calc.
105'-110'		Same as preceding.
110'-115'		Slightly greenish, grayish khaki clay containing scattered subrounded quartz grains and a few <del>white</del> fragments of white clay. Not calcareous. Like preceding, except that color is a little grayish.

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11  
115-120 Strange Hole #7 (cont)  
Like preceding, but contains a few small balls of brick red clay like the gouge in large open cut. Large lumps of khaki clay are dusted with red clay

120-125 Same as preceding. One fragment of bedded clay resembles decalcified chip of Cedar Creek Tondaway ls.

125-130 Same as preceding without the red dust.

130-135 Same as preceding with a little red stain (Shaly ls according to Muon)

135-140 Slightly darker khaki clay like preceding containing pellets & chips of dark greenish-gray clay ~~and~~ <sup>one</sup> that contains small grains that effervesce. This is the just below the base of the zone in which weathering has removed all lime. This <sup>sample from</sup> Zone 15 the transition zone between entirely weathered and fresh ls.

140-145 Like preceding.

145-150 Like preceding but contains larger <sup>knots of</sup> calcareous clay

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150-153

Strange # 7 (cont.)  
 Dark Khaki clay, containing a little  
 red clay. Clay very calcareous &  
 contains chips of dark greenish-gray  
 limestone.

Total Depth.

4/15/41

## Strange Mine - Hole # 16

Db

9-20 Fine light brown subrounded sand.

20-35 Very finely sandy light tan silt.

35-50 Similar, but contains clay chips of  
white & yellow clay.  
45-50 Drilled like ss.

50'-55' Very fine subrounded yellow sand. T.D.

## Strange Mine - Hole # 13

5-15 Reddish-brown very slightly clayey fine  
to very fine sand cont. a little MnO.

15-25 Light brown v.f. sdy silt.

25-35 Similar, but contains chips of v.f. grained  
porous white ss.

35-40 Very finely sdy silt - pinkish tan

Db

570

40-50

 khaki or grayish-brown clay containing  
 chips of contorted laminated clay.  
 Not calcareous T.D.

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## Strange Mine - Hole #9

6 - 10	Dark-brown fine to medium sand containing a few small pebbles
10 - 15	Light-brown silty very fine sand
15 - 25	Yellow v. finely sandy silt <small>← color change (Moony)</small>
25 - 30	Brownish gray silty very finely sandy clay. Looks like Tonoloway, may be same bed as 10-15 in Hole #20.
30 - 40	Brownish-yellow silt.
<del>40 - 45</del> <del>skip</del>	Mostly brownish yellow silty clay, but contains chips of brownish-gray clay. Contact is probably in this interval.
45 - 50	Olive drab silty clay - T. 12.

## Strange Mine - Hole #8

2 - 10	Dirty coarse sand containing pebbles of sandstone
10 - 50	Fine brown sand containing a few pebbles of sandstone from above
All upper	
Db.	

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	Strange Mine - Hole # <u>10</u>
0-20	Fine sand impregnated and in part replaced by pyrolusite. Samples are brownish black to black. A few chips of soft white sandstone impregnated with Mn. A few broken quartz pebbles.
20-50	Yellow very finely sandy silt. Some contains considerable clay binder. T.D. 35-40 clay
All D.b.	
0-5	Strange Mine - Hole # <u>21</u> Light brown clayey silt containing scattered sand grains & a little Mn.
5-20	Light tan silt cont. scattered sd grains
20-30	Similar, but saw some quartzite chips. T.D.
	Strange Mine - Hole # <u>24</u>
0-5	Fine sandy loam cont. considerable Mn.
5-10	Finely sandy silt cont. some Mn and clay.
10-20	Buff silt.
20-30	Similar silt that contains a few chips of khaki (grayish brown) clay. Contact may be in this interval.

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	Strange Mine - Hole # <u>11</u>
0 - 10	Fine brown sub-rounded sand cont. considerable Mn.
10 - 25	Brownish-yellow silt cont. a little Mn.
25 - 40	Light buff silt, containing chips of gray clay. Mn. Mn. ← change
40 - 45	A mixture of yellow silt, brown clay & grains of red clay.
<u>Db</u> <u>5 to</u> 45 - 50	Grayish brown clay cont. chips of yellow silt. - T.D.
	Strange Mine - Hole # <u>23</u>
0 - 5	Fine to medium black sand cont. considerable Mn.
5 - 10	Brown clayey sand containing a little Mn.
10 - 35	Light brown sandy silt. A very little Mn. in upper part.
35 - 40	Very fine reddish-brown sand
40 - 55	Pinkish-tan silt.
<u>Db</u> <u>5 to</u> 55 - 60	50' Grayish-brown clay T.D.
	Moon puts Buckfat at 50' where color change was noticeable

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## Strange Mine - Hole # 18

5-9 Red clay containing fine to coarse angular quartz grains.

10-15 Similar.

17-25 Reddish-brown silty fine to coarse sand containing a few well-rounded quartz pebbles up to  $1\frac{1}{4}$ " long.

25-50 Reddish-brown fine subangular sand containing rounded pebbles of white sandstone and quartzite. One fragment of ss. (25-30) is  $1\frac{1}{2}$  inches long T.D.

upper  
All Db

## Strange Mine - Hole # 20

5-10 Tan finely sandy silt

10-15 Gray silty clay. Looks like T. sandway clay but is underlain by silt.

15-20 Tan silt containing a little Mn.

20-25 Yellowish-brown finely sandy silt

25-50' Tan finely sandy silt

Grayish-Brown silty clay. Contains a few chips of purple, red, white, and yellow clay. Not calcareous. T.D.

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0-5	Strange Mine - Hole # 22 Baff sand containing some quartz gravel and a little Mn.
5'-10'	Dark buff very fine sand.
10'-30'	Dark yellow or tan very finely sandy silt.
30'-50'	Yellow to tan very finely sandy silt.
50'-55'	Grayish brown very finely sandy clay. One piece of palercolored chert
55-60	Brown silty clay containing chips of yellow silty clay
0-5	Strange Mine Hole # 27 Brown silty medium to fine sand
5'-10'	Similar. A few chips of the porous fine sandstone.
10'-15'	Similar Trace Mn.
15-20'	Similar with chips of sandstone. In general, more silty.
20-25	Mostly light brown silt.
25'-30'	Light brown silt. Grains are angular.

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0-5 Strange Mine Hole #29  
Fine powdery silt (brown) containing some Mn.

5'-10' Dark tan powdery silt.

10'-15' Pb Similar. Some red (burnt?)

15'-20' <sup>Pb?</sup> Similar - A little clay binder.

20'-25' Similar - contains a little v.f. sand.  
Prob. all Db

25'-30' <sup>Db?</sup> <sup>5-10'</sup> Very finely sandy silty clay TD.

0-15 Strange Mine - Hole #25  
Reddish-brown fine sand. A few  $\frac{1}{16}$ " pebbles

15-25 Similar, but is general a little finer

25-50 Yellow <sup>very</sup> finely sandy, slightly clayey silt.

50'-60' Similar, but contains some psilomelane

60'-65' Similar, but contains a few clay chips that may be Tonoloway

Db  
5 to  
65-75 Brown sandy clay  
TD.

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0-5		Strange Mine Hole # <u>26</u> Fine khaki silty clay.
5-10'		Yellowish-brown silt containing scattered lumps of $MnO_2$ and many scattered sand grains.
10-15'		Similar.
15-20'		Fine to coarse yellow quartz sand and a little quartz & gravel in Silt. No. $MnO_2$ .
20-25'		Similar.
25-30'		Similar, but contains a little Mn.
30-35'		Khaki silty clay.
35-40'		Similar containing chips of limestone T.P.

300'  
2961  
~~40~~

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Strange Mine - Hole # <u>28</u>	
0'-5'	Dark reddish brown <del>very</del> finely sandy clay containing numerous grains of Mn O <sub>2</sub> .
5'-10'	Same as preceding - less sand.
10'-15'	Clay like preceding but very little sand & Mn O <sub>2</sub>
15'-20'	Khaki-colored silty clay containing a few limonite nodules. Plastic when wet.
20'-25'	Light tan silty clay, containing a little red stain
25'-30'	Grayish tan silty clay cont. a few fine quartz grains and many specks of white clay. One piece of pyrolusite (from above?)
30'-35'	Clay similar to above.
35'-40'	Very fine quartz sand in a matrix of clay like above <u>(Color change)</u>
<u>40'-45'</u>	<u>Db</u> Khaki silty clay containing a few chips of white & of pink tightly cemented very fine-grained sandstone or quartzite
45'-50'	Khaki silty clay containing contorted streaks of yellow & of dark greenish gray clay. A few pellets of white Kaolin-like clay

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	Strange # 28
50'-55'	Khaki silty clay, slightly darker than above. Not calc. Some red stain
55'-60'	Same as last sample. No red stain
60'-65	Same as preceding
65'-70'	Same as preceding
70'-75'	" " "
75'-80'	Same silty khaki noncalc. clay.
80'-85'	Khaki clay containing chips of de calcified ls + one angular pebble of limonite containing a psilomelane core. Much red stain.
85'-90'	Khaki silty clay with red stain
90'-95'	Same as preceding sample
95'-100	Same as preceding. All these samples contain hard scattered grains that look like psilomelane - prob. from above.
100'-105	Similar - Not calc.
105'-108	Similar but contains small calc. streaks.
107-108	Washed - Made up of chips of greenish gray ls. - T.D.

NAME Samples, W. H., Jr.  
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0-5' Strange Mine - Hole # 30  
Coffee-colored loamy medium sand

5-10' Khaki Fine sand containing many  
grains of MnO<sub>2</sub>.

10'-15' Similar but less MnO<sub>2</sub>.

15'-30' (3) All Khaki fine sand containing a  
little MnO<sub>2</sub>.

30'-35' Light tan <sup>very</sup> fine silty sand. No MnO<sub>2</sub>

35'-40' Similar

40'-45' Similar, but contains a few fragments  
of the very porous fine sandstone.

45'-50' Similar.  
<sup>Pb</sup>  
5 to 7'

50'-55' Similar matrix containing flakes of  
dark greenish brown clay

Moon thinks all Bencraft.

NAME Monroe-Sampson

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Strange Mine Hole # 31

0'-5' No sample

5'-10' Dark reddish-brown fine to medium sand

10'-15' Brick red sand containing pebbles up to  $\frac{1}{8}$ " long

15'-20' Similar sand with pebbles up to  $\frac{1}{4}$  in long. Pebbles are mostly quartz.

20'-25' Light reddish-brown fine to coarse wellrounded quartz sand.

25'-30' ~~Light reddish brown~~ Light brick red medium-sand containing a few pebbles.

30'-35' Similar - A few chips of porous medium-grained sandstone

35'-40' Light brick red medium silty sand.

40'-45' Similar

45'-50' Light brown medium sand - a few chips of clay. T.D.

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## Strange Mine Hole #32

0'-5'	Brick red loose fine to medium silty sand.
5'-10'	Similar sand containing considerable MnO <sub>2</sub> grains and numerous small well rounded pebbles of quartzite.
10'-15'	Similar sand containing MnO <sub>2</sub> and some pink & white clay.
15'-20'	Red clay containing grains of white & yellow clay and scattered quartz & manganese grains.
20'-25'	Light salmon silty clay containing many grains of white clay and chert fragments. A little medium sand.
25'-30'	Don Db Salmon-colored Fine to coarse sand containing a few pebbles of quartzite - a little chert from above
30'-35' (4 hrs to drill)	Fine to coarse sand and fine gravel. Many of grains are nearly spherical (and may not be granite.)
35'-40'	Similar
40'-45'	Somewhat more homogeneous, medium sand
45'-50'	Fine to medium dusty red sand. T. D.

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## Strange Mine - Hole # 33

0-10

Red silty clay containing grains of pink &amp; white chert and a little Mn. fine to

10-30

Reddish brown, coarse sand and fine gravel containing chips of hard sandstone

30-50

Reddish brown fine sand, lighter color in lower part

## Strange Mine - Hole # 34

0-5

Tan coarse sandstone and fine pebbly conglomerate

5-30

Similar but brownish-tans becomes redder downward in section

30-65

Fine gray sand containing a few small quartz pebbles - Trace Mn. Chips of fine-grained sandstone

65-78

Grayish- and yellowish tan &amp; very finely sandy silt containing in lower part a few chips of very fine-grained sandstone

Top of yellow silt at 67' (Moon)

Poor sample from 75-78

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Strange Mine-Hole # 35	
0 - 5	Brownish-tan coarse sand & fine gravel
5 - 20	Fine light reddish-brown fine sand containing a few coarse gravel
20 - 50	<del>Fine</del> Dark gray fine sand containing a little Mg. A few chips of hard sandstone
50 - 55	Yellow <sup>very</sup> finely sandy silt
55 - 64	Light cream-colored very finely sandy silt containing chips of very fine-grained sandstone. TD.
All Db.	

NAME *Location of Holes*  
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*From Moon.*

No.	Alt	Co-ord	N	F
✓ 1	3045		5010	4963
✓ 12	3042		4990	4864
✓ 8	3044		5107	4942
✓ 18	3041		5088	4844
✓ 7	3038		5065	4747
✓ 20	3013		5170	5234
✓ 9	3021		5162	5137
✓ 19	3045		5127	5040
✓ 13	3031		4895	5402
✓ 14	3034		4926	5495
✓ 15	3029		4952	5593
✓ 16	3029		4956	5693
✓ 3	3046		5000	5479
✓ 4	3054		5036	5571
✓ 5	3050		5050	5666
✓ 23	3026		4894	5303
✓ 24	3028		4997	5379
✓ 10	3035		5191	5337
✓ 21	3034		5212	5432
✓ 22	3059		5255	5625
✓ 11	3049		5233	5529
✓ 2	3072		5186	5692
✓ 25	3074		5201	5740
✓ 26	3005		5284	5315
✓ 27	3001		4853	5040
✓ 28	3001		4939	5044
✓ 29	2998		5007	5116
✓ 30				
✓ 31				
✓ 32				
✓ 33				